

Abstract

The gear pump unit (100) comprises a pump cover (1), an internal rotor (16) mounted rotatably in a recess (9) of the pump cover (1) and formed in a rotationally fixed manner on a driven plug-in shaft (11), and an external rotor (19), which is rotatably mounted in the recess (9) of the pump cover (1) eccentrically relative to the axis of rotation (A) of the internal rotor (16). The external rotor (19) is in mesh with the internal rotor (16) only in a first angle-of-rotation range (α). In a second angle-of-rotation range (β) lying opposite the first angle-of-rotation range (α), the internal rotor (16) is in contact with an inner surface (25) of a web (23), which is disposed in the recess (9). The outer surface (26) is in contact with the external rotor (19). After closing of the recess (9) by a cover plate (27) fastened to the pump cover (1), an admission pressure chamber (21) and a low-pressure chamber (22) are therefore formed in the recess (9). A holding element (33), which is held in the pump cover (1), in the initial assembled state of the gear pump unit (100) holds the cover plate (27) at a fixed angle of rotation on the pump cover (1).

(Fig. 1)